## Amendments to the claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

 (Currently amended) A method of creating a powder, comprising the steps of: spraying a carrier liquid containing a powder forming ingredient to form a flow of liquid droplets;

entraining the flow of liquid droplets with a within a concurrent flow of coolant for sufficient time to freeze the liquid droplets into frozen particles; and drying the frozen particles to form a dry powder.

- 2. (Original) The method of claim 1 in which the powder forming ingredient is suspended or dissolved in the carrier liquid.
- Cancelled.
- 4. (Currently amended) The method of claim [[3]] 1 in which the concurrent flow of coolant is sprayed from a ring nozzle.
- 5. (Currently amended) The method of claim 1 in which the flow of liquid droplets is injected into a chamber and entrained by flowing coolant injected through porous walls of the chamber.
- 6. (Original) The method of claim 1 in which the frozen particles are collected on a filter.
- 7. (Currently amended) The method of claim 6 in which the frozen particles are substantially dried while after being collected on the filter.

- 8. (Currently amended) The method of claim 1 in which the <u>flow of coolant</u> has a temperature within a first temperature range during freezing of the liquid particles and a temperature warmer than the first temperature range during drying of the frozen particles.
- 9. (Original) The method of claim 1 in which the carrier liquid contains more than one powder forming ingredient.
- 10. (Currently amended) A method of creating a powder within a chamber, the method comprising the steps of:

providing a flow of liquid droplets containing a powder forming ingredient to form a flow of liquid droplets; and

treating the liquid droplets with a flow of coolant inside the chamber to freeze the liquid droplets to form frozen particles prior to deposition;

depositing the frozen particles on a collector; and

dry after deposition of the frozen particles, drying the deposited frozen particles, and thus to form a dry powder.

- 11. (Original) The method of claim 10 in which flow of coolant is concurrent with the flow of liquid droplets.
- 12. (Currently amended) The method of claim 10 in which flow of coolant for drying frozen particles is in co-direction with the gravity.
- 13 (Original) The method of claim 10 in which the flow of coolant prevents adherence of liquid droplets to walls of the chamber.
- 14. (Original) The method of claim 10 in which the flow of liquid droplets contains more than one powder forming ingredient.

- 15. (Currently amended) Apparatus for atmospheric spray freeze drying of an ingredient carrying liquid to form a powder, the apparatus comprising:
- a chamber having an atomizer at one end of the chamber, the atomizer being connected to a source of the ingredient carrier liquid to produce a flow of liquid droplets;
- an injection a nozzle system for providing a flow of coolant that entrains atomized fluid liquid droplets sprayed by the atomizer;
  - a source of coolant for the injection nozzle system; and
- a collector spaced from the atomizer sufficiently that liquid droplets atomized by the atomizer are frozen by the flow of coolant before contact with the collector.
- 16. (Currently amended) The apparatus of claim 15 in which the <u>injection nozzle</u> system and atomizer are oriented to provide concurrent flows of coolant and liquid droplets.
- 17. (Currently amended) The apparatus of claim 16 in which the <u>injection</u> nozzle system comprises a ring nozzle surrounding the atomizer.
- 18. (Currently amended) The apparatus of claim 17 in which the <u>injection nozzle</u> system is arranged around a porous wall defining a flow chamber through which the flow of <u>liquid droplets</u> <u>coolant</u> passes.
- 19. (Original) The apparatus of claim 15 in which the collector is a filter at an exit from the chamber.
- 20. (Original) The apparatus of claim 19 in which the atomizer and collector are at opposed ends of the chamber.
- 21. (New) The method of claim 1 in which the coolant is a gas.
- 22. (New) The method of claim 21 in which the coolant is a gas formed by vaporization of a cold liquid.

- 23. (New) The method of claim 22 in which the cold liquid is liquid nitrogen.
- 24. (New) The method of claim 5 in which the porous walls of the chamber comprise side walls, and the carrier liquid is sprayed from a first end of the chamber.
- 25. (New) The method of claim 24 in which the frozen particles are collected on a filter at an end of the chamber opposed to the first end, and dried on the filter.
- 26. (New) The method of claim 10 in which the coolant is a gas.
- 27. (New) The method of claim 26 in which the coolant is a gas formed by vaporization of a cold liquid.
- 28. (New) The method of claim 27 in which the cold liquid is liquid nitrogen.